INFO5100
FINAL PROJECT

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OUTLINE

- 1. Problem Statement
- 2. Approach
- 3. Object Model
- 4. Use cases/functionalities
- 5. Screenshots

PROBLEM STATEMENT

With more frequent population displacement and the increment of human movements, the risk and complexity of infectious disease is increasing in nowadays society. In order to control epidemic outbreaks efficiently and protect public health, it is necessary to develop a platform for data collection and analysis, and accordingly giving prevention advice or emergency alert to local hospitals or other related organizations.

Thus, our system is aim to ***Disease Alert&Control*** through the collected information about disease distribution from different areas to support the public health security.

PROBLEM STATEMENT

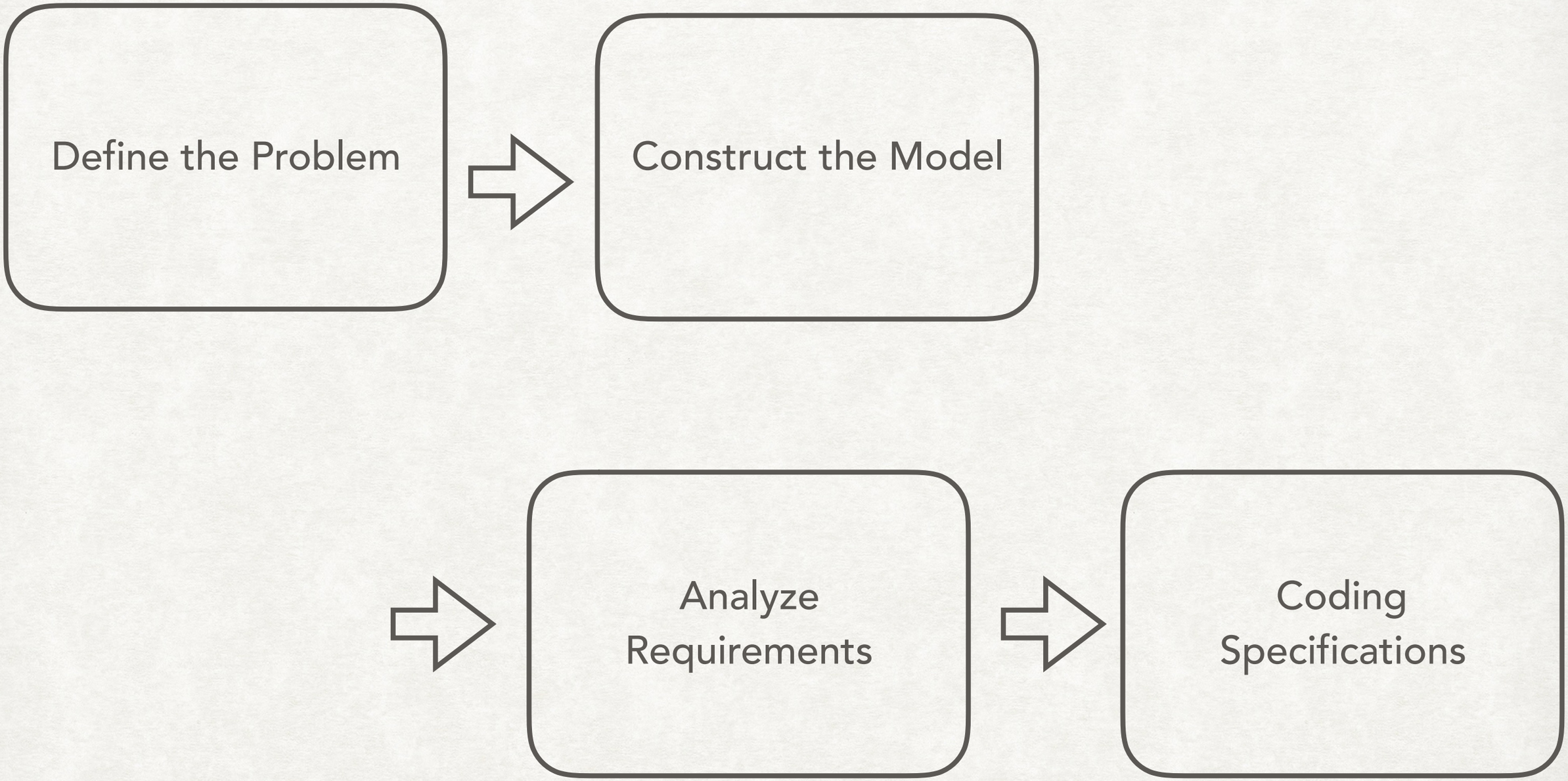
ADDITIONAL FEATURES

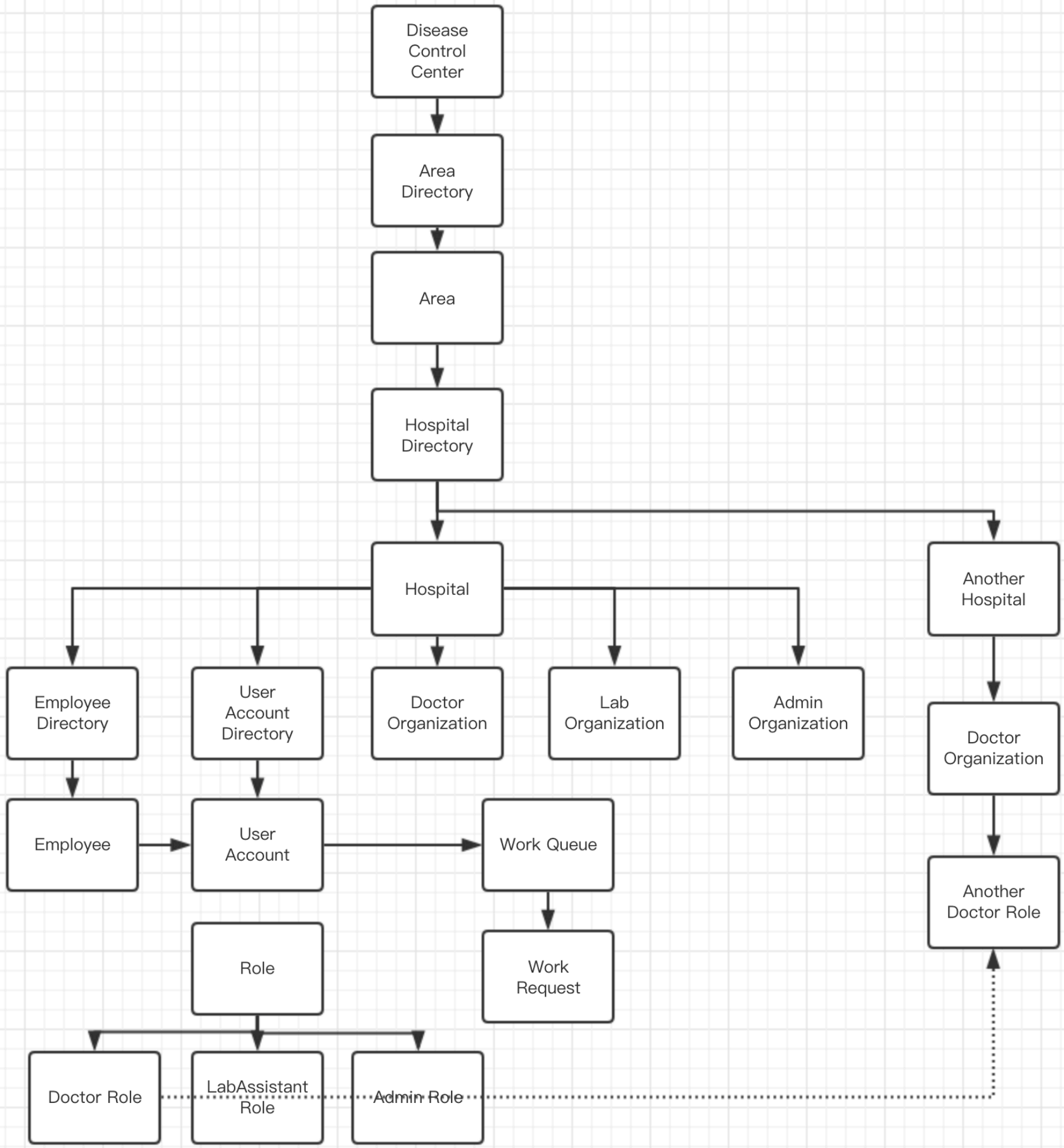
1. Analyzed and get most Frequent Disease among Male and Female separately.

2. Communication between different Hospitals.

3. Doctors can submit a request to the control center to define a new disease for which symptoms have never been seen before, and after checking the control center will add a new disease into the disease control list.

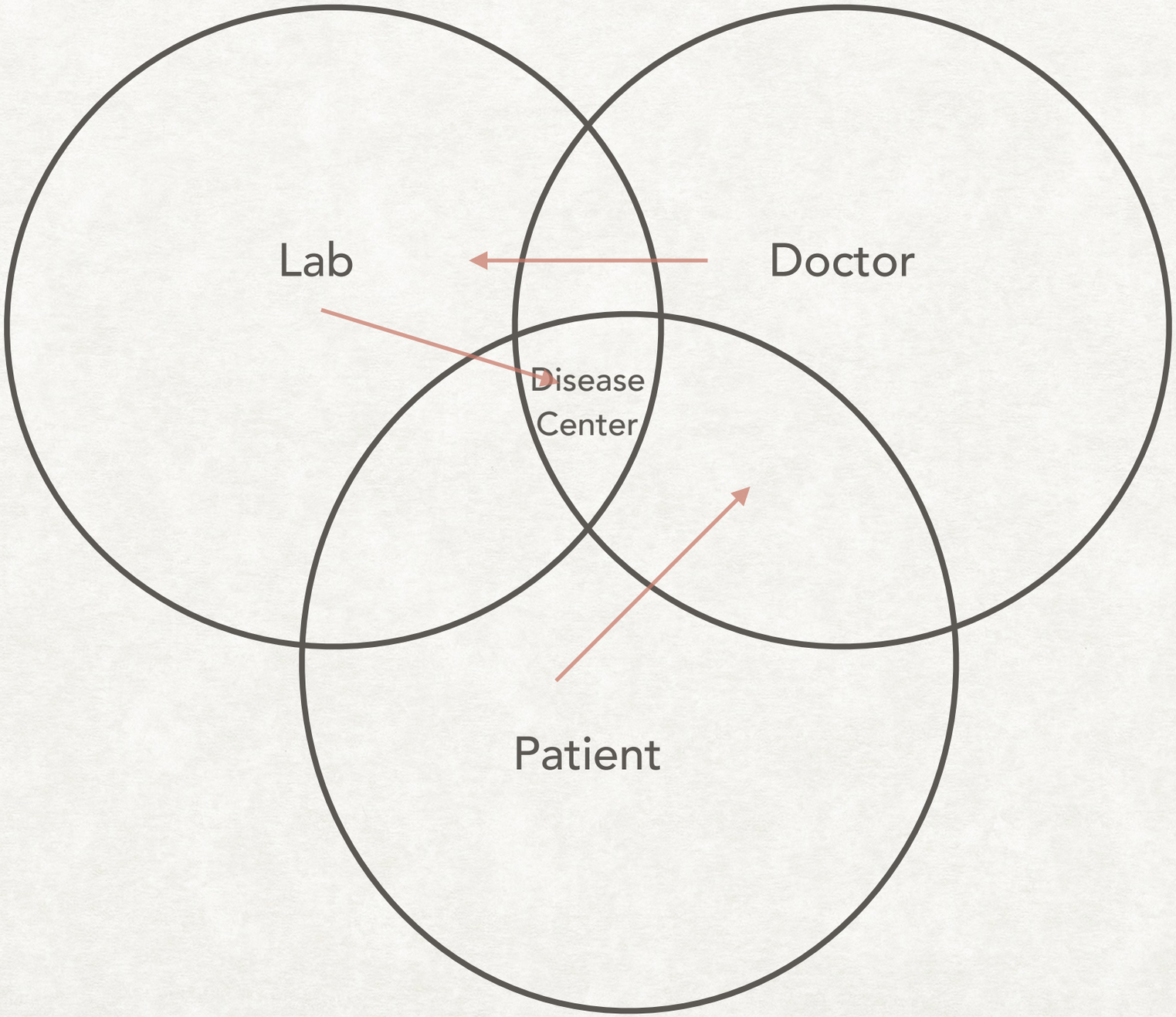
APPROACH


Define the Problem
Construct the Model
Analyze Requirements
Coding Specifications


Disease Control Center
Area Directory
Area
Hospital Directory
Hospital
Employee Directory
User Account Directory
Doctor Organization
Lab Organization
Admin Organization
Employee
User Account
Work Queue
Work Request
Role
Doctor Role
LabAssistant Role
Admin Role
Another Hospital
Doctor Organization
Another Doctor Role

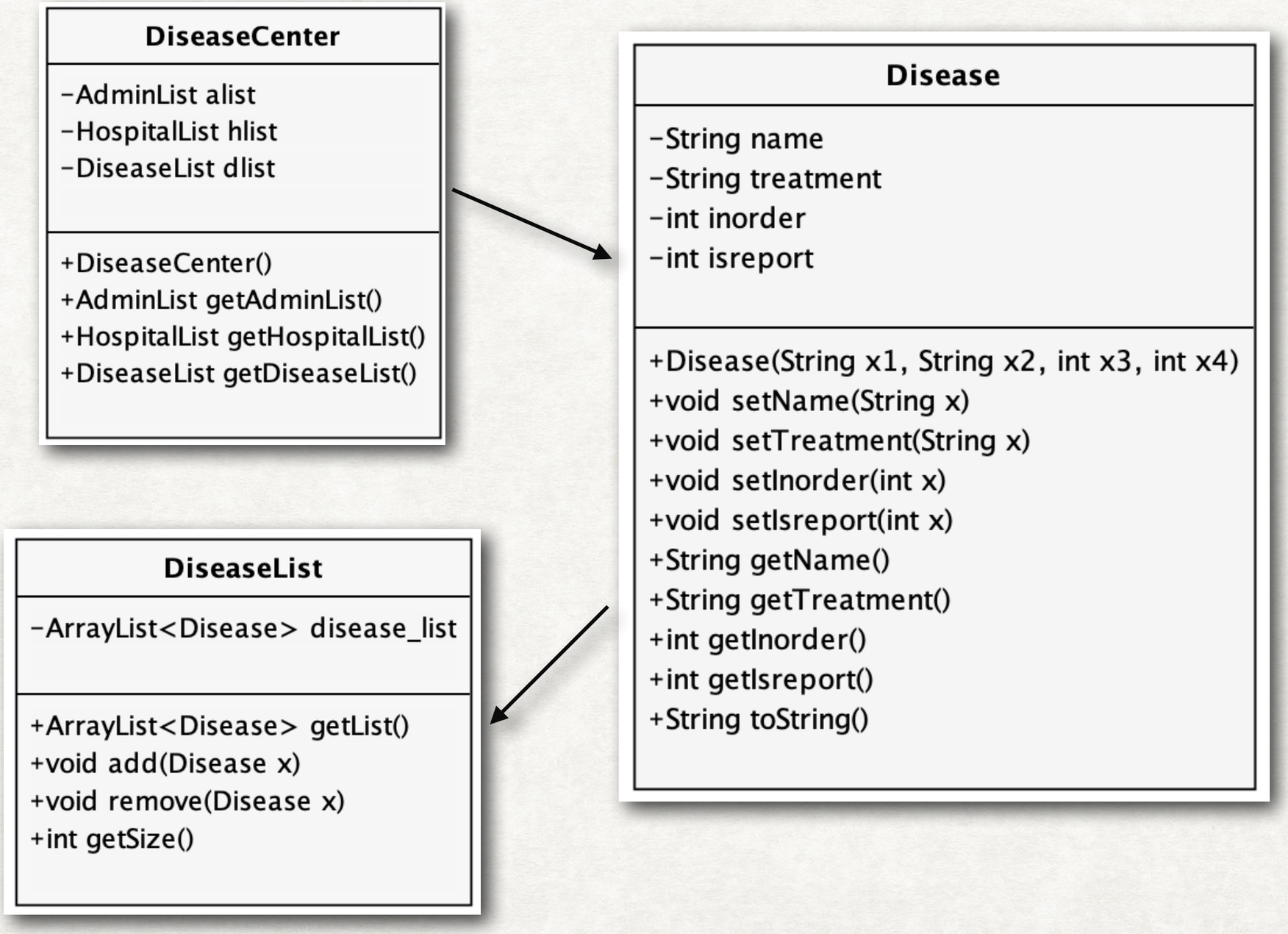
OBJECT MODEL

KEY ROLES



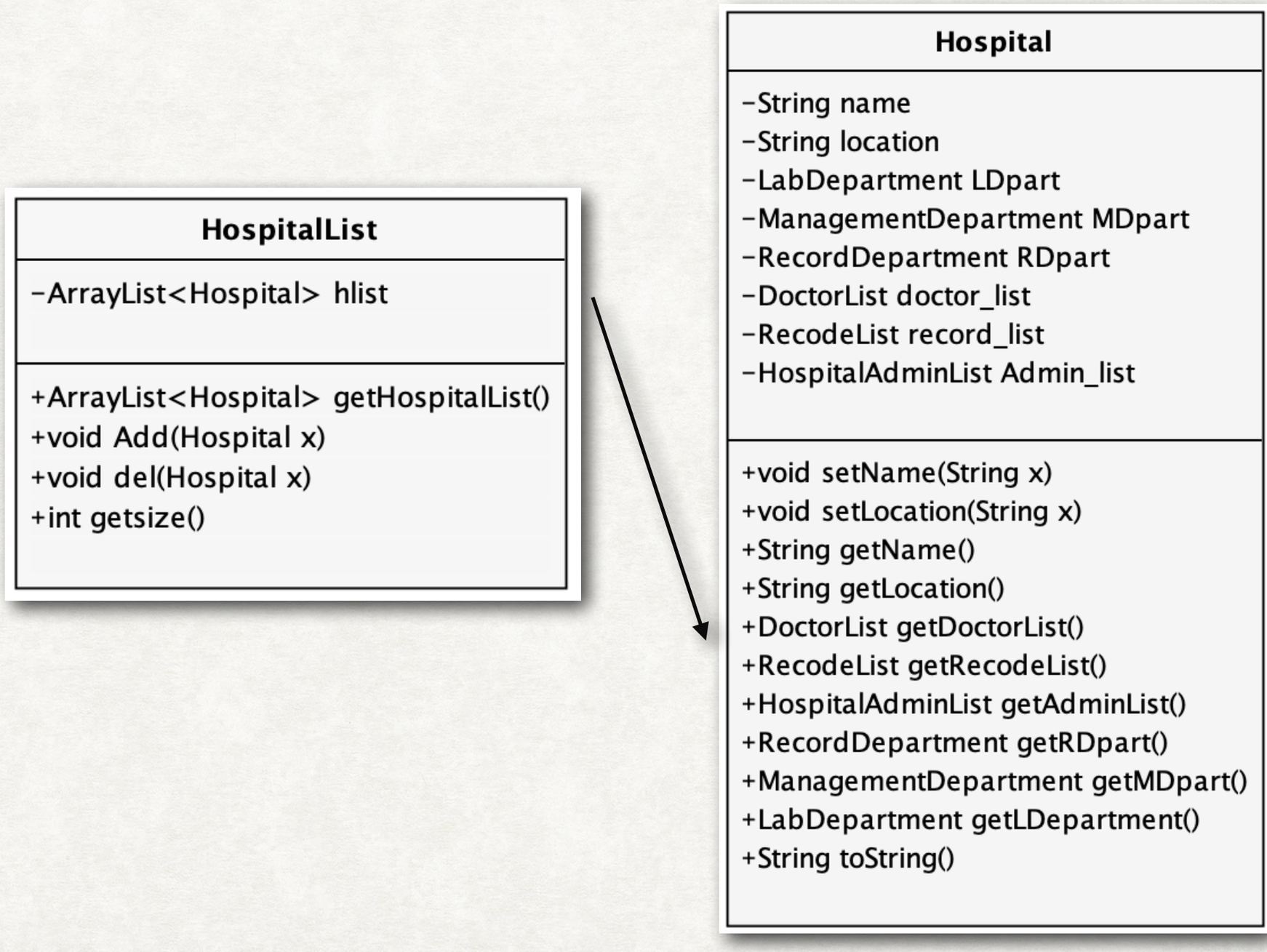
OBJECT MODEL

DISEASE



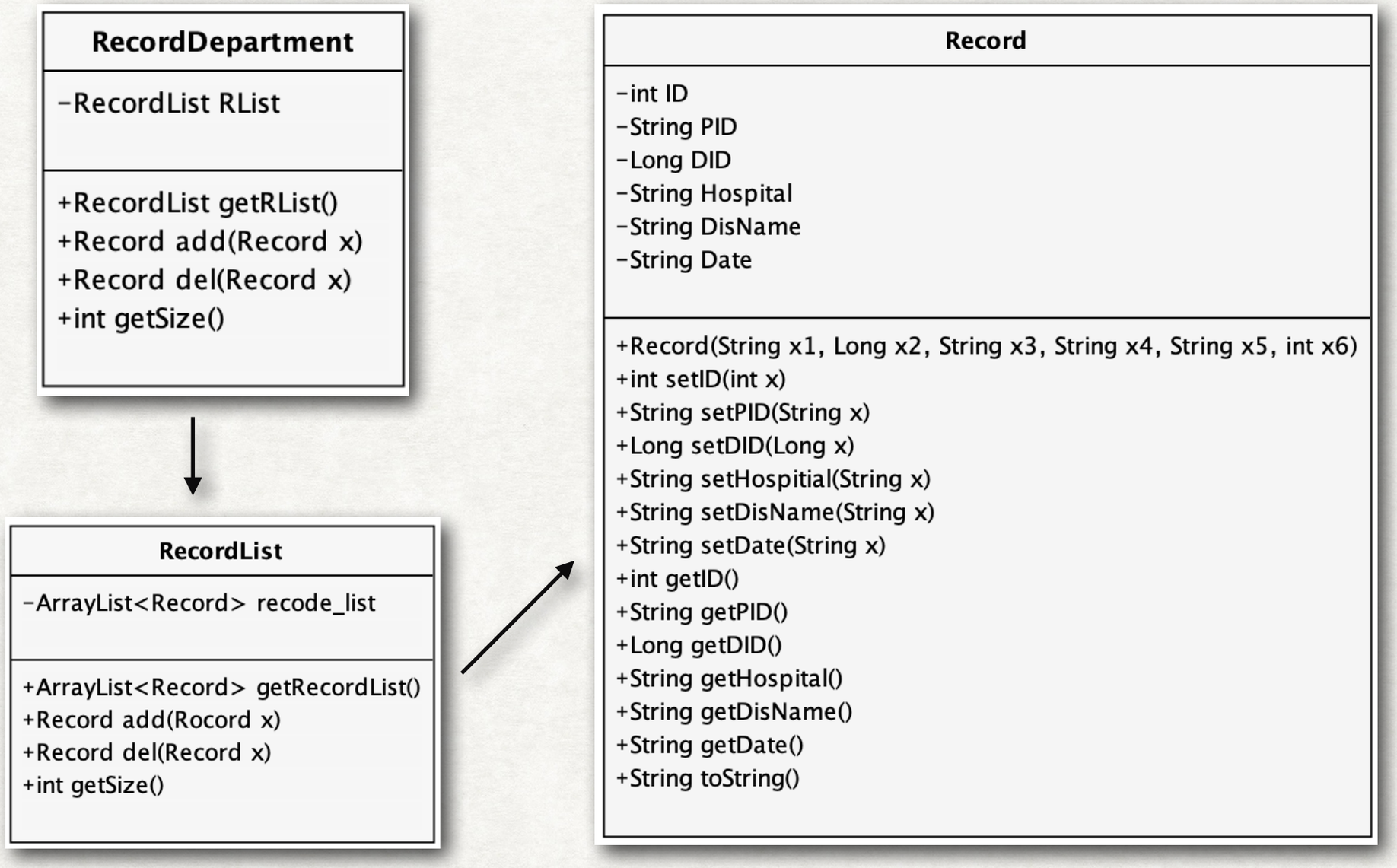
OBJECT MODEL

HOSPITAL



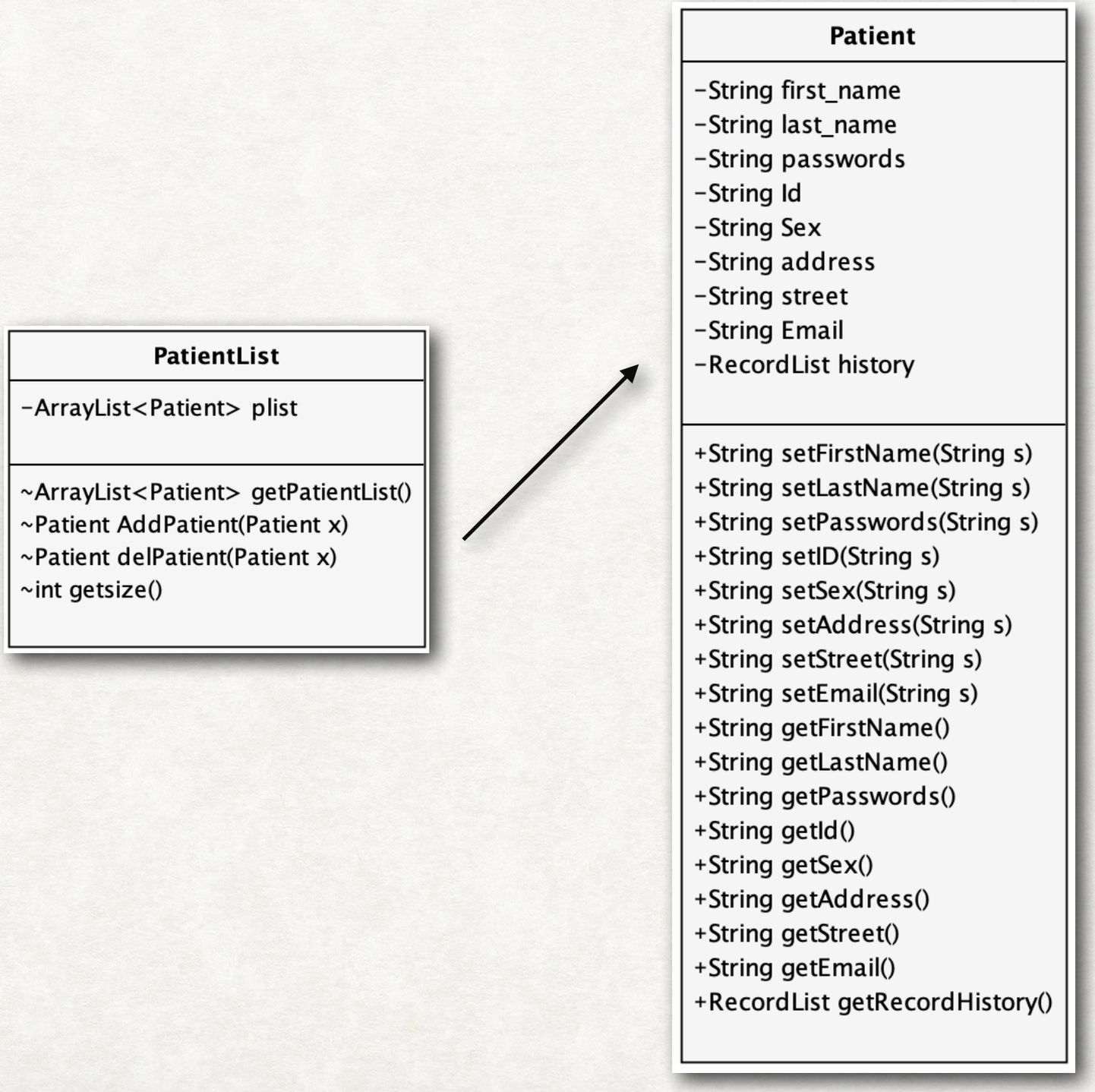
OBJECT MODEL

RECORD



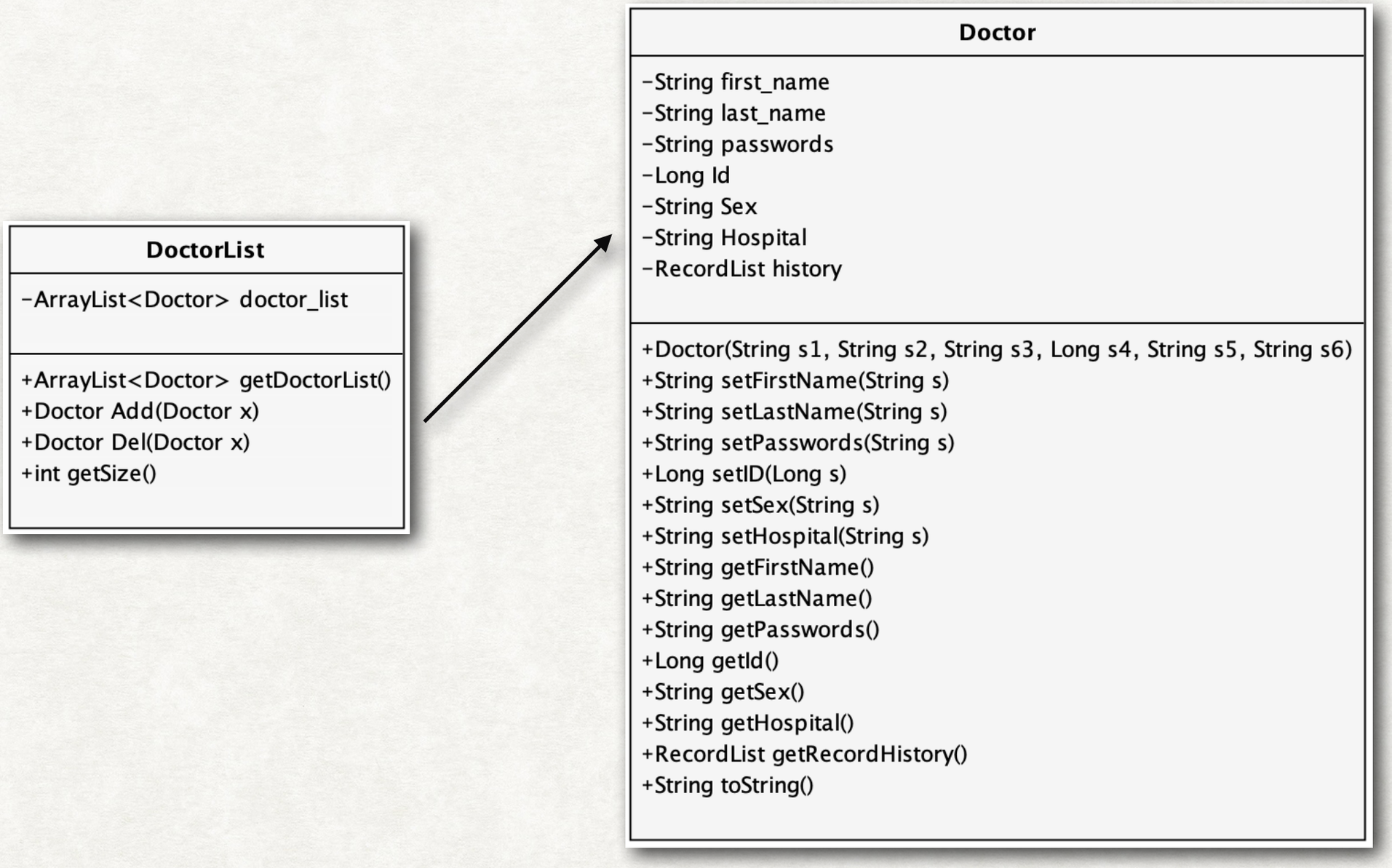
OBJECT MODEL

PATIENT



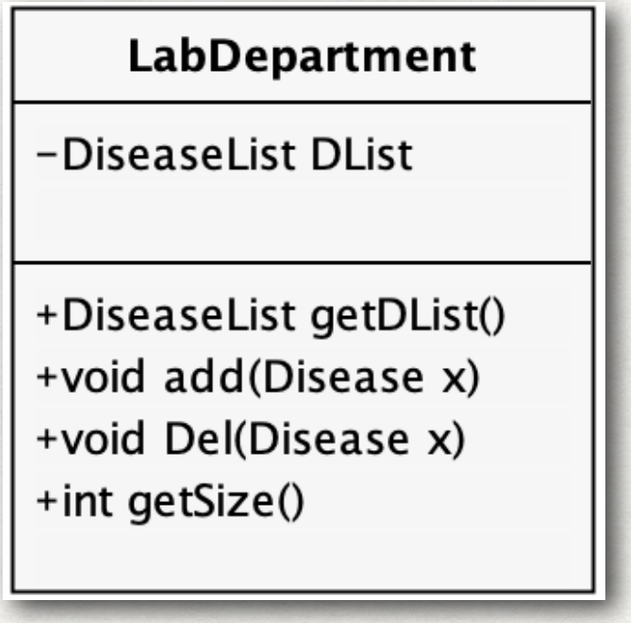
OBJECT MODEL

DOCTOR



OBJECT MODEL

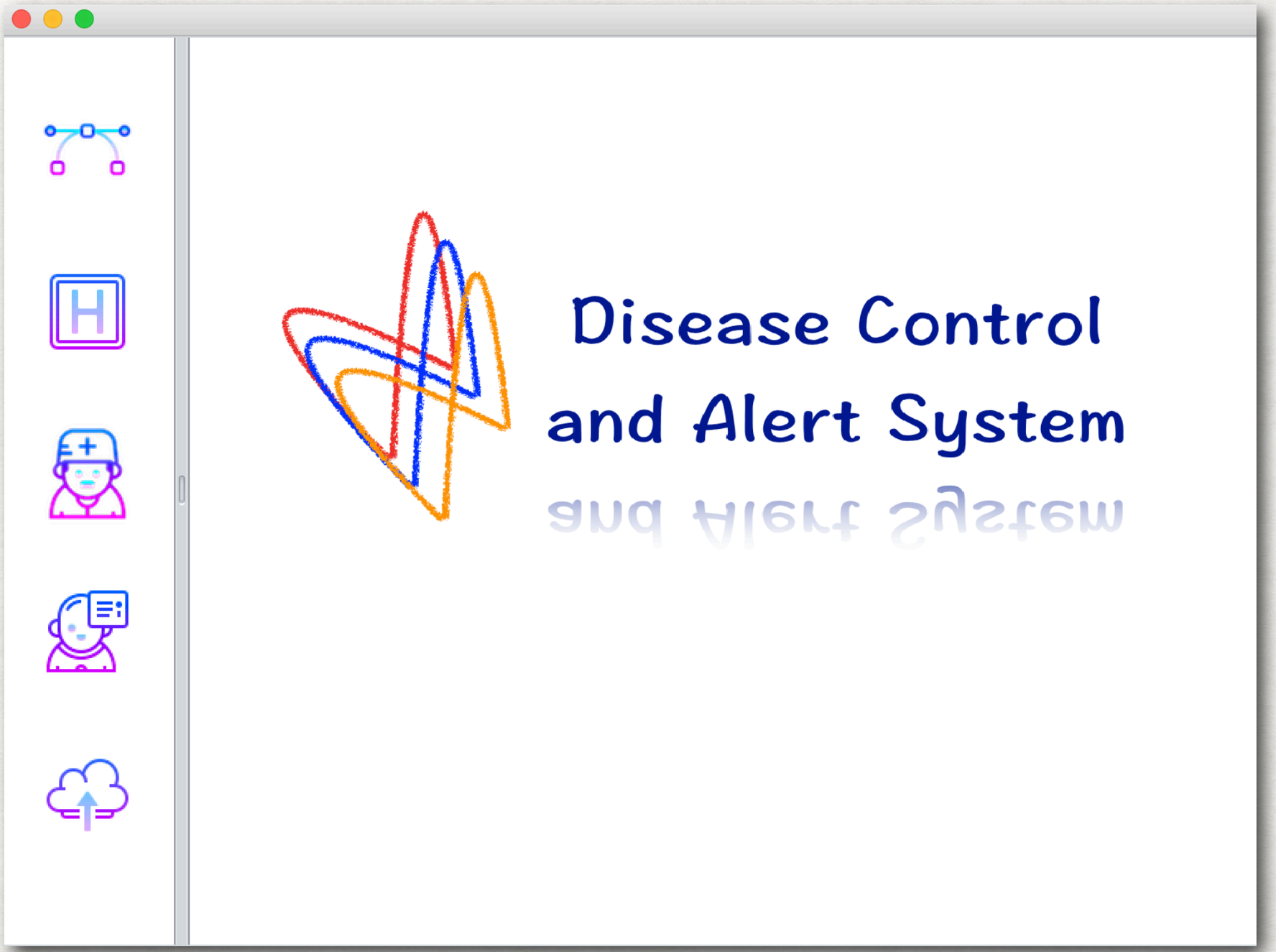
LAB



USE CASES/FUNCTIONALITY

OVERVIEW

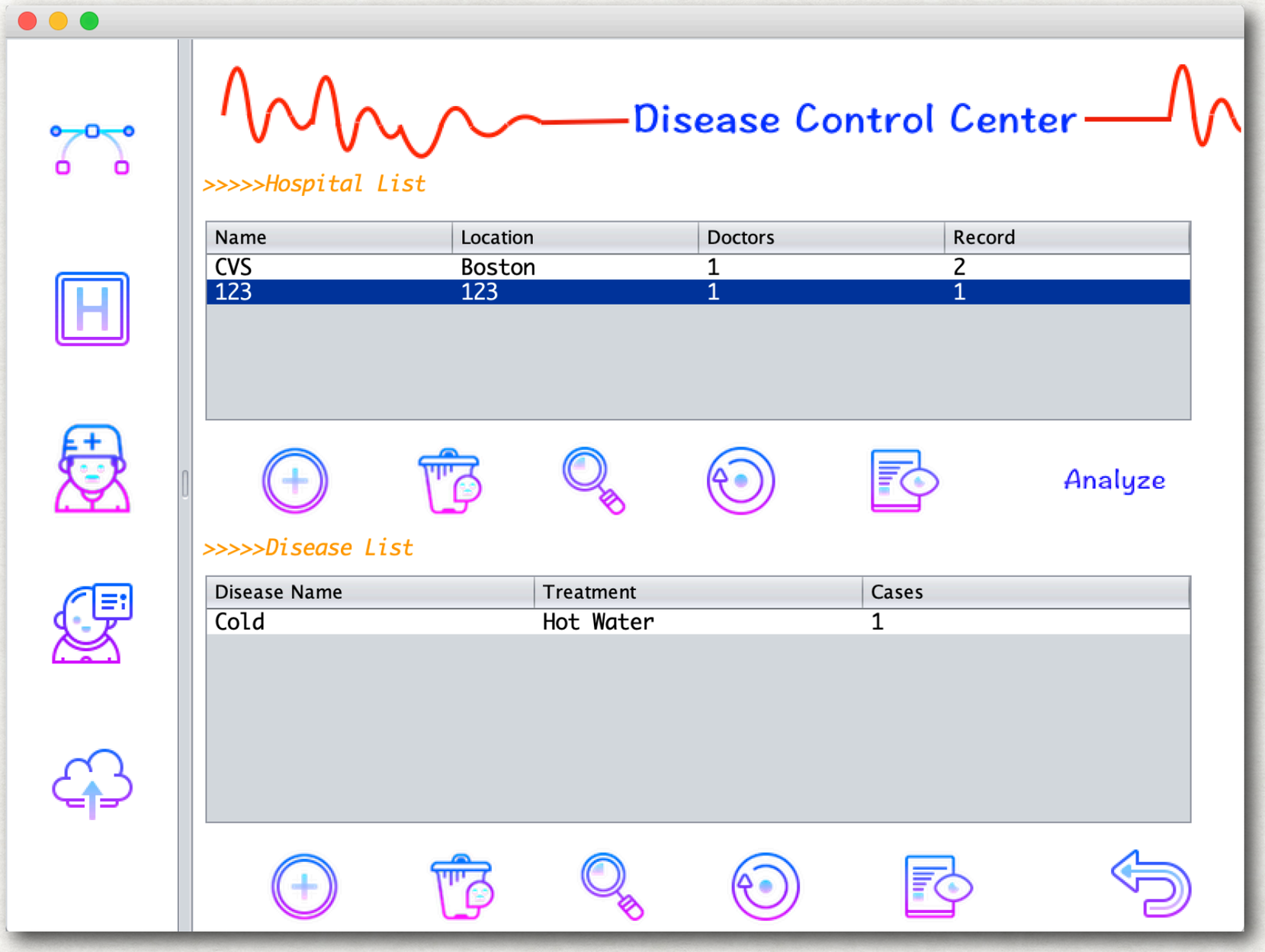
- Disease Control Center
- Hospital
- Doctor
- Lab
- Patient
- Disease
- Medical Record



USE CASES/FUNCTIONALITY

DISEASE CONTROL CENTER

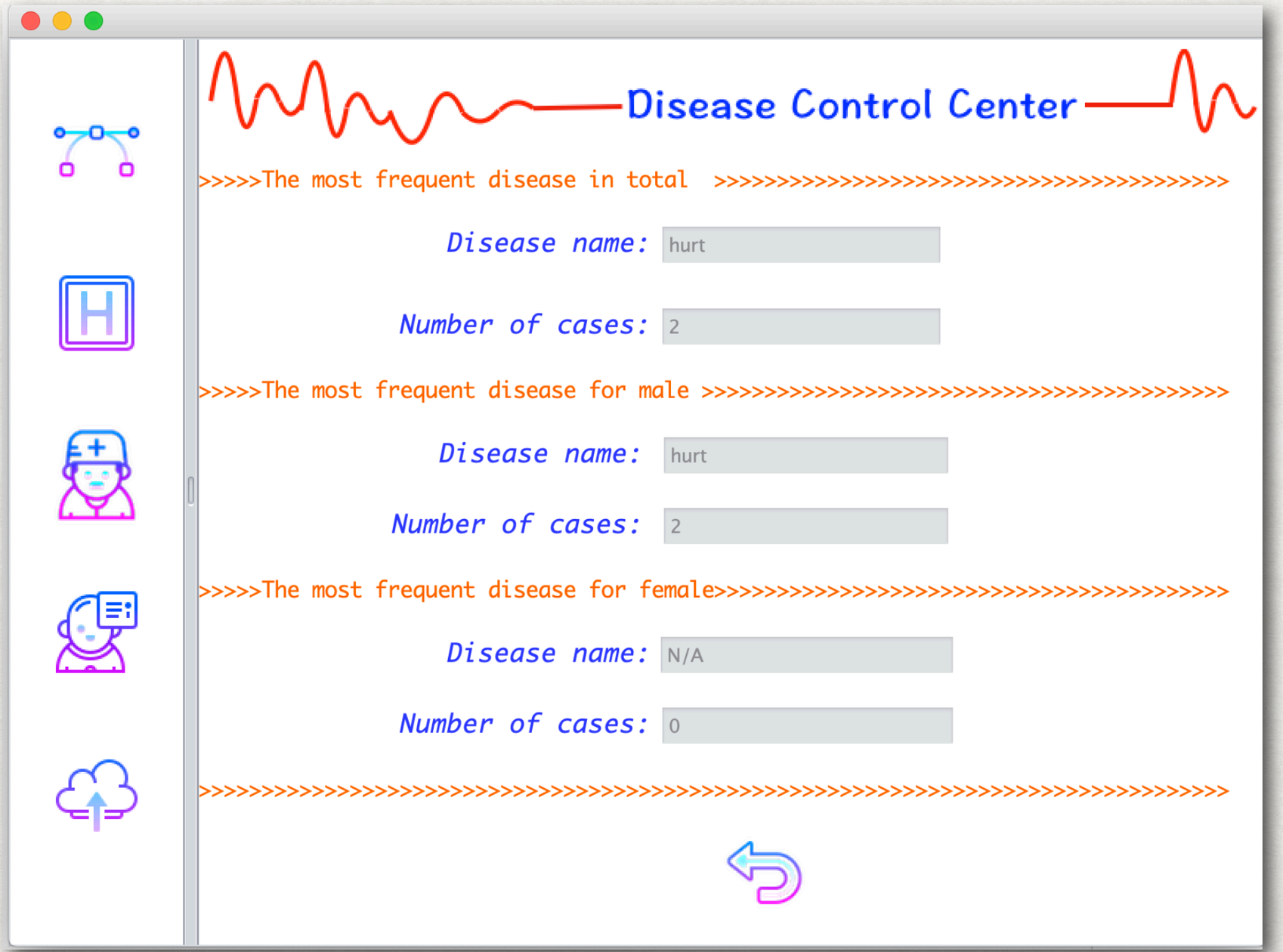
- All Information
- Could access all information here including **Hospitals** and **Diseases**
- Add and Delete Disease
- Analyze



USE CASES/FUNCTIONALITY

DISEASE CONTROL CENTER

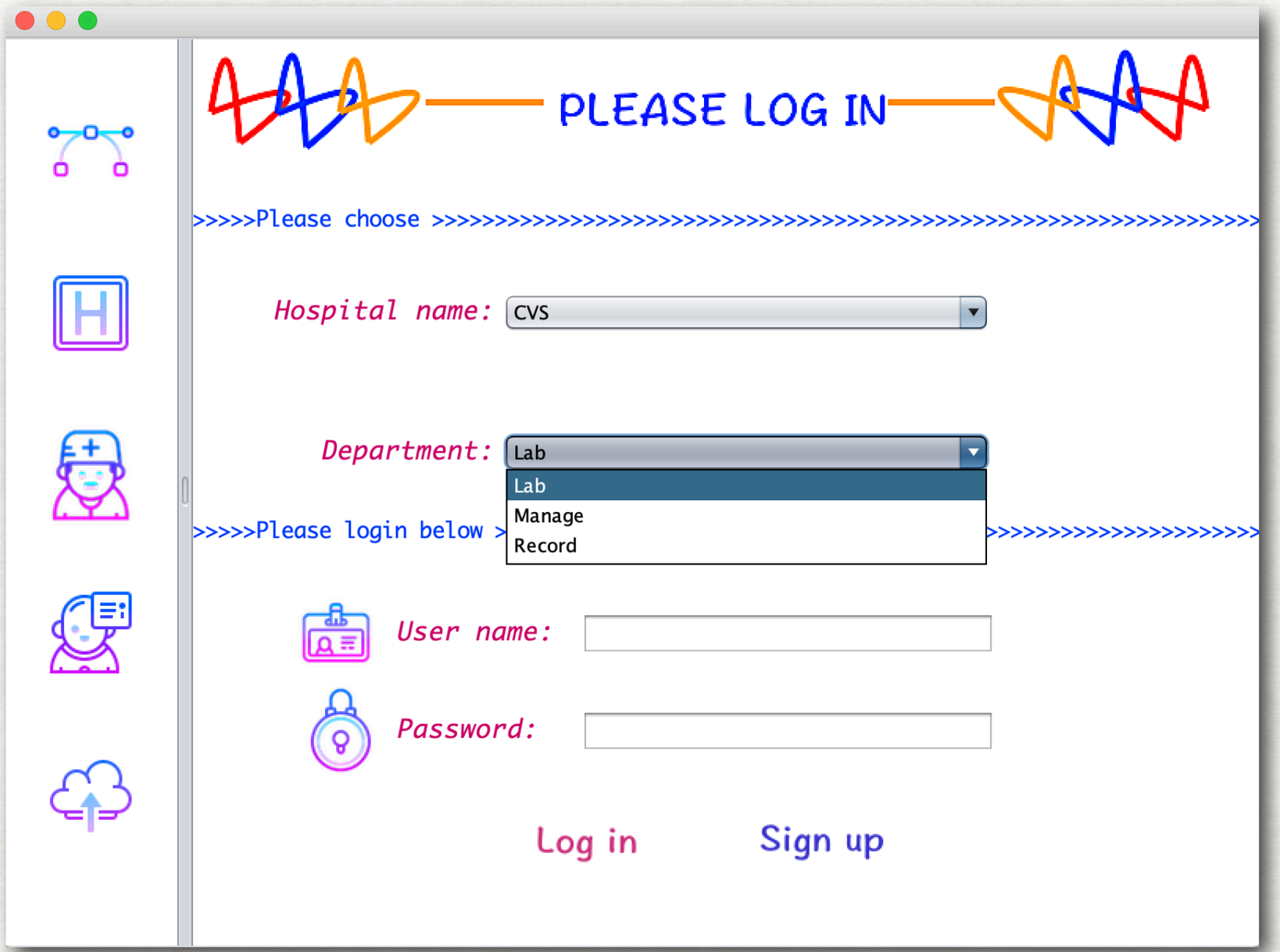
- Analyze
- 1. Most Frequent Disease in Total
- 2. Most Frequent Disease among Male
- 3. Most Frequent Disease among Female


Disease Control Center
>>>>>The most frequent disease in total >>>>>>

USE CASES/FUNCTIONALITY

HOSPITAL

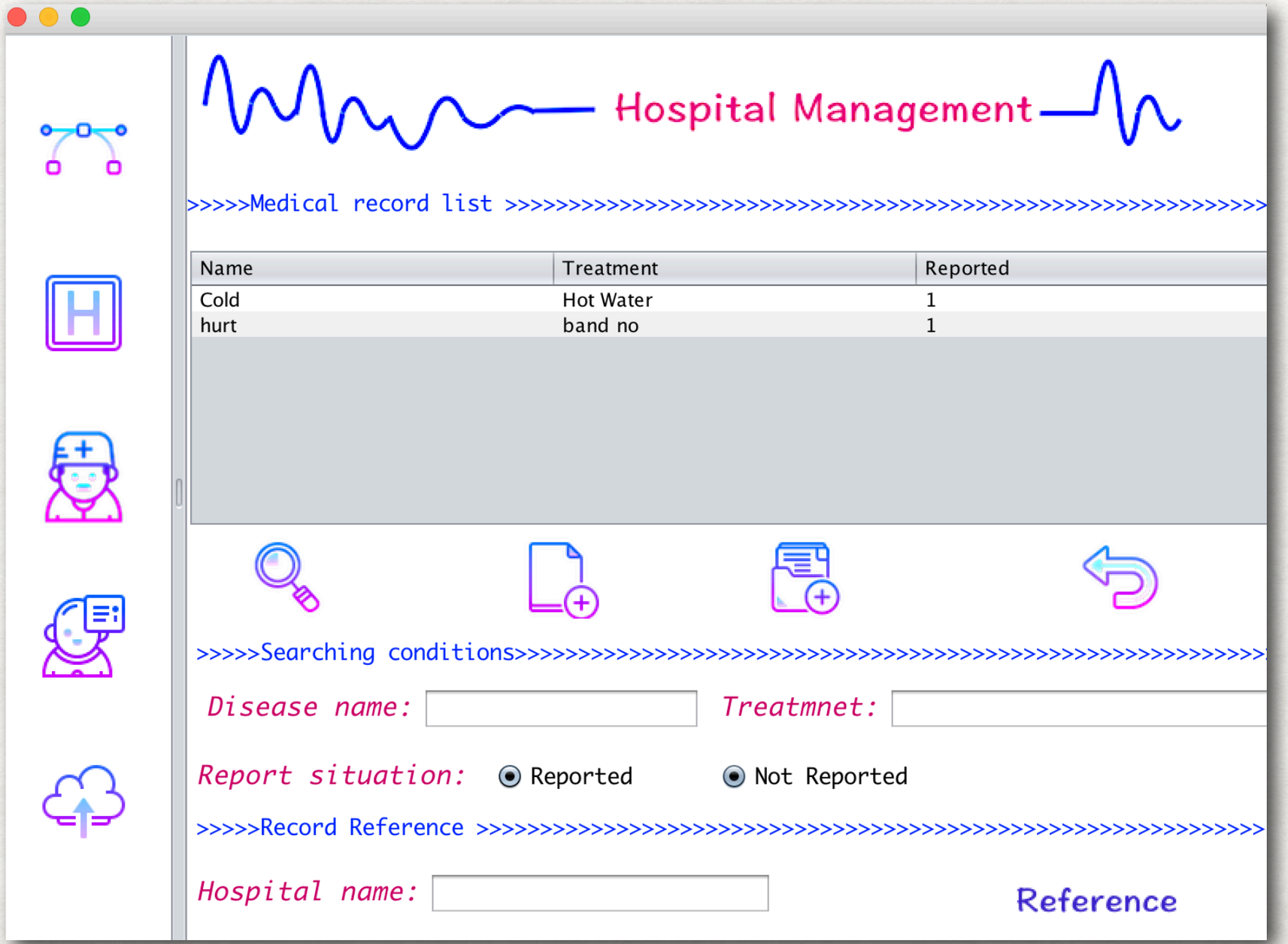
- Login Part
- Choose from:
- 1. Lab
- 2. Manger
- 3. Record


PLEASE LOG IN
>>>>>Please choose >>>>>>

USE CASES/FUNCTIONALITY

HOSPITAL

- Login Part
- Choose from:
- 1. Lab
- 2. Manger
- 3. Record


Hospital Management
>>>>>Medical record list >>>>>>

USE CASES/FUNCTIONALITY

HOSPITAL

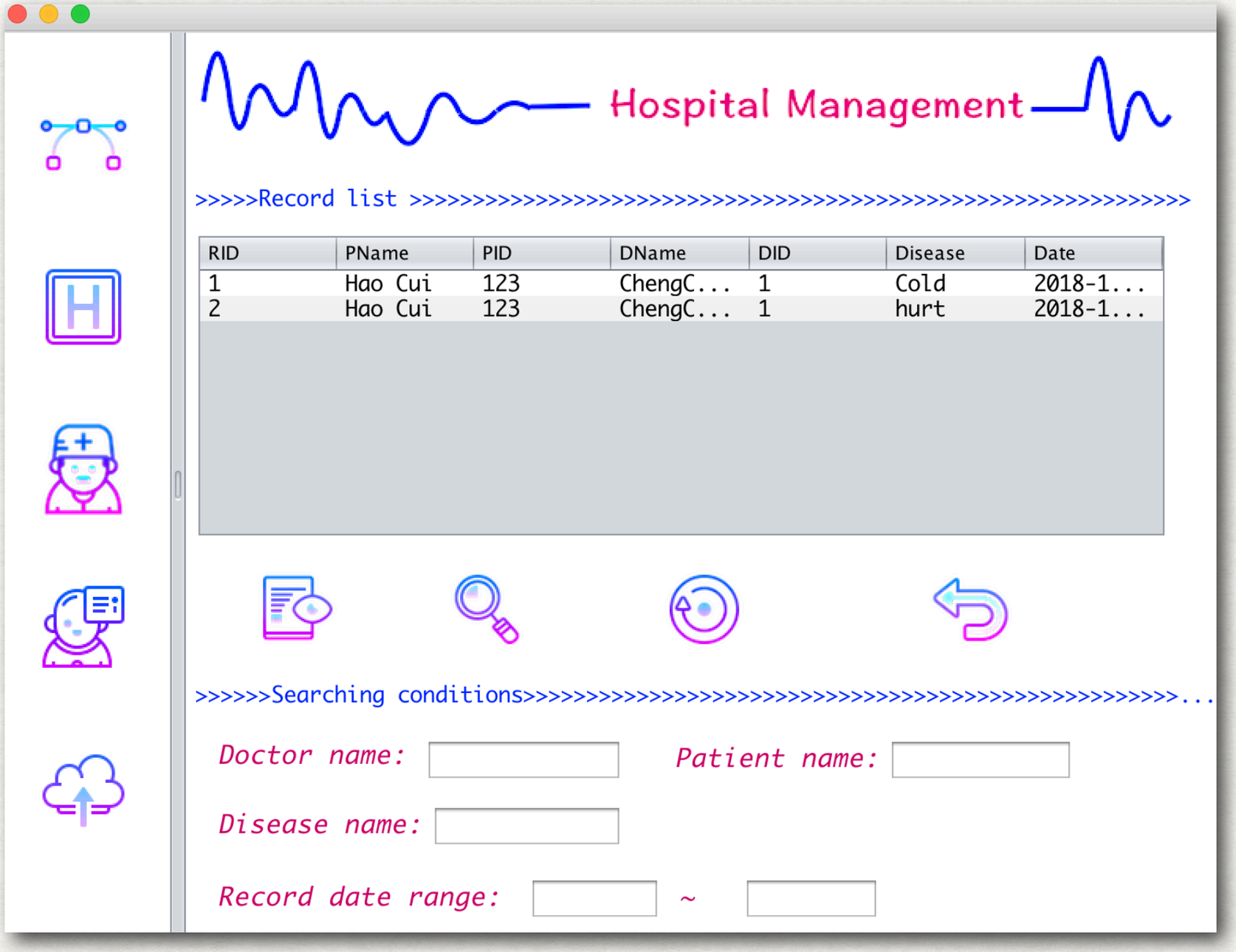
- Login Part
- Choose from:
- 1. Lab
- 2. Manger
- 3. Record

Hospital Management
>>>>>Human resource managemnet >>>>>>

USE CASES/FUNCTIONALITY

HOSPITAL

- Login Part
- Choose from:
- 1. Lab
- 2. Manger
- **3. Record**


Hospital Management
>>>>>Record list >>>>>>

USE CASES/FUNCTIONALITY

DOCTOR

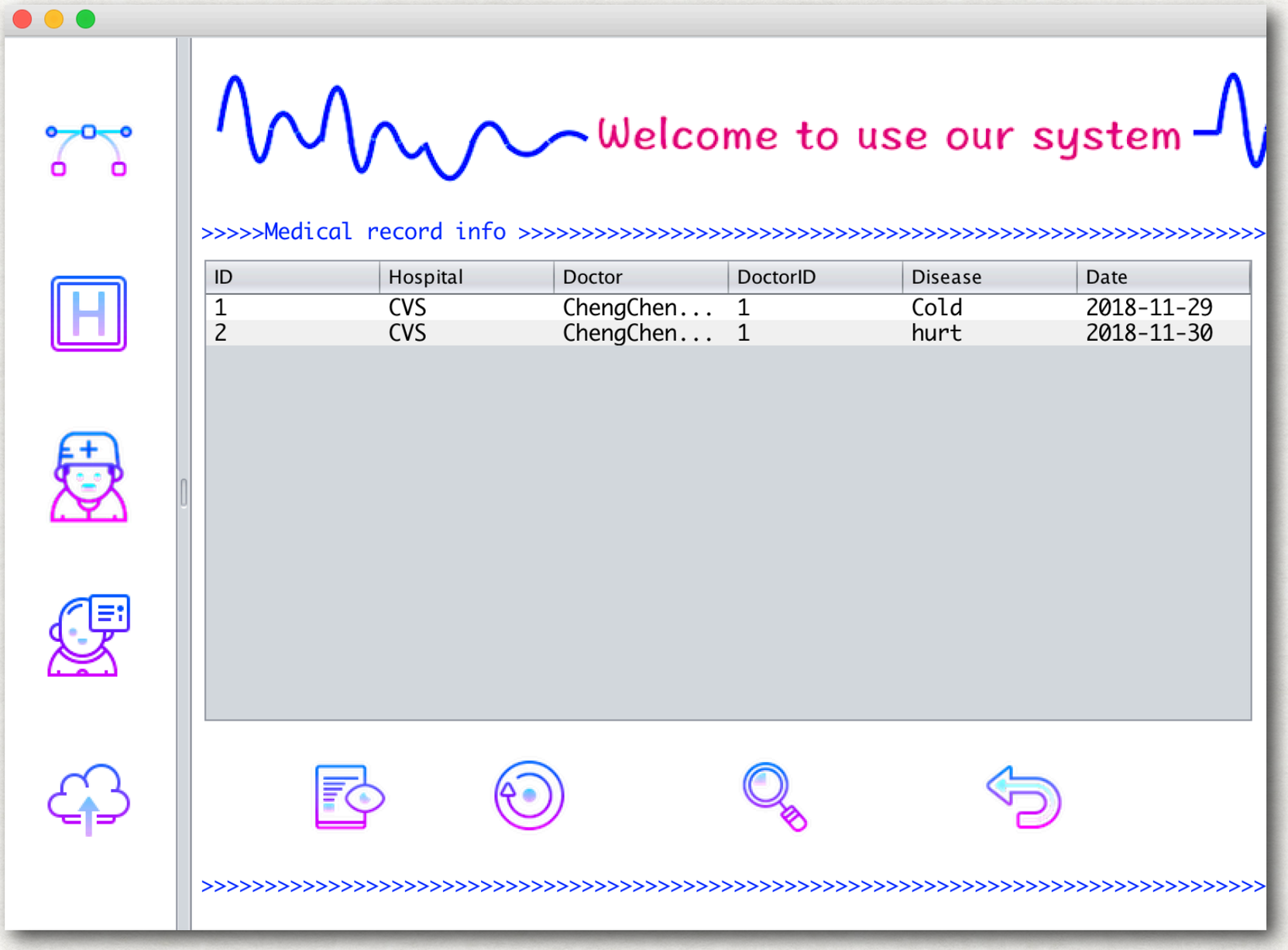
- Give treatment to Patients
- Report the record to lab
- Refer the patient to another hospital(**Communicate between enterprise**)

Hi,Doctor! Welcome
>>>>>Patient List>>>>>

USE CASES/FUNCTIONALITY

PATIENT

- Login Different Hospitals
- Sign up and fill personal informations


Welcome to use our system
>>>>>Medical record info >>>>>>

THANK YOU!